

A SCHWARZ LEMMA FOR NON-ANALYTIC FUNCTIONS
DEFINED IN THE UNIT DISK

MARIA E. GAGEONEA, MIHAI N. PASCU and NICOLAE R. PASCU

Abstract. We derive a Schwarz lemma for a class of non-analytic function defined on the unit disk.

MSC 2010. 30C80.

Key words. Schwarz lemma, non-analytic functions, maximum modulus principle.

REFERENCES

- [1] GAGEONEA, M.E., OWA, S., PASCU, M.N. and PASCU, N.R., *A maximum modulus principle for non-analytic functions*, Appl. Math. Comput., **187** (2007), 163–169.
- [2] GAGEONEA, M.E., PASCU, M.N. and PASCU, N.R., *A maximum modulus principle for a class of non-analytic functions defined in the unit disk*, Mathematica, **49 (72)** (2007), 169–174.
- [3] PASCU, N.N. and OWA, S., *On Schwarz lemma for the half plane*, New developments in convolution (Japanese) (Kyoto, 1997), Sūrikaiseikikenkyūsho Kōkyūroku No. 1012 (1997), 140–142.

Received September 11, 2009

Accepted February 21, 2010

“Transilvania” University of Braşov
Faculty of Mathematics and Computer Science
Str. Iuliu Maniu Nr. 50
500091 Braşov, Romania
E-mail: gageonea@yahoo.com
E-mail: mihai.pascu@unitbv.ro

Southern Polytechnic State University
Department of Mathematics
1100 South Marietta Parkway
Marietta, GA - 30060-2896, USA
E-mail: npascu@spsu.edu